```
=> FILE REG
FILE 'REGISTRY' ENTERED ON 22 SEP 2009
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2009 American Chemical Society (ACS)


=> D HIS

     FILE 'HCAPLUS' ENTERED ON 22 SEP 2009
L1          9120 S TAKEI ?/AU
L2           760 S SAKAIDA ?/AU
L3          1668 S SHINJO ?/AU
L4            12 S L1 AND L2 AND L3
L5         23538 S DEXTRIN#
L6             4 S L1 AND L2 AND L3 AND L5

     FILE 'REGISTRY' ENTERED ON 22 SEP 2009
L7             1 S 9004-53-9
L8             1 S 7585-39-9

     FILE 'HCA' ENTERED ON 22 SEP 2009
L9           453 S (L7/D OR L7/DP OR L8 OR L8/DP)(L)ESTER?
L10           31 S (L7/D OR L7/DP OR L8 OR L8/DP)(L)(BENZOAT? OR ACETONOAT
L11         7812 S DAMASCEN?
L12        19553 S PAG OR PAGS OR PHOTOACID? OR PHOTOGENERA? OR PHOTO(2A)(
L13       149409 S LITHO? OR PHOTOLITHO? OR CHROMOLITHO?
L14       228352 S PHOTORESIST? OR RESIST OR RESISTS OR PHOTOMASK? OR MASK
L15            1 S (L9 OR L10) AND L11
L16            1 S (L9 OR L10) AND L12
L17            6 S (L9 OR L10) AND L13
L18            4 S (L9 OR L10) AND L14

     FILE 'HCA' ENTERED ON 22 SEP 2009
L19            2 S (DEXTRIN#(2A)BENZOAT?)/IT
                 E COATING(S)/CV
L20        43478 S E3 OR E7
                 E COATING MATERIALS/CV
L21       341725 S E3
                 E COATING PROCESS/CV
L22       171819 S E3
L23       345291 S CROSSLINK? OR CROSS?(2A)LINK?
L24            9 S (L9 OR L10) AND (L20 OR L21 OR L22)
L25           14 S (L9 OR L10) AND L23

     FILE 'LREGISTRY' ENTERED ON 22 SEP 2009
```

```
                E DEXTRIN/CN
L26           1 S E3
                E B-CYCLODEXTRIN/CN
L27           1 S E3
                E ACETIC ACID/CN
L28           1 S E3
                E PROPANOIC ACID/CN
L29           1 S E3
                E BUTANOIC ACID/CN
L30           1 S E3
                E ISOBUTANOIC ACID/CN
L31           1 S E3
                E FORMIC ACID/CN
L32           1 S E3
                E BENZOIC ACID/CN
L33           1 S E3
L34           0 S 9004-53-9/CRN
L35          15 S 7585-39-9/CRN
L36           6 S L28-L33
                SEL L36 1-6 RN
                EDIT E1-E6 /BI /CRN
L37         243 S E1-E6

     FILE 'REGISTRY' ENTERED ON 22 SEP 2009
L38         239 S L34
L39        8754 S L35
L40       51495 S L37
L41          78 S (L38 OR L39) AND L40

     FILE 'HCA' ENTERED ON 22 SEP 2009
L42         141 S L41
L43           9 S L42 AND (L11-L14 OR L20 OR L21 OR L22)
L44           4 S L42 AND L23
L45          22 S L15 OR L16 OR L17 OR L18 OR L24 OR L43
L46          13 S (L25 OR L44) NOT L45
L47          13 S 1808-2003/PY,PRY,AY AND L45
L48           6 S 1808-2003/PY,PRY,AY AND L46




=> FILE HCA
FILE 'HCA' ENTERED ON 22 SEP 2009
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
```

=> D L47 1-13 BIB ABS HITSTR HITIND RE

L47 ANSWER 1 OF 13 HCA COPYRIGHT 2009 ACS on STN
AN 147:523534 HCA Full-text
TI Articles having a polymer grafted cyclodextrin
IN Wood, Willard E.; Bohrer, Timothy H.; Kellenberger, Stanley R.; Beaverson, Neil J.
PA USA
SO U.S. Pat. Appl. Publ., 53pp., Cont.-in-part of U.S. Ser. No. 429,579.
CODEN: USXXCO
DT Patent
LA English
FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 20070264520	A1	20071115	US 2007-761105	20070611
	US 20040110901	A1	20040610	US 2003-672297 <--	20030925
	US 7166671	B2	20070123		
	EP 1921109	A2	20080514	EP 2007-119818	20040129
	EP 1921109	A3	20080827		
	R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LI, LU, MC, NL, PT, RO, SE, SI, SK, TR, AL, BA, HR, MK, YU, RS				
	US 20060205873	A1	20060914	US 2006-429579 <--	20060505
PRAI	US 2002-432523P	P	20021210 <--		
	US 2003-672297	A3	20030925 <--		
	US 2006-429579	A2	20060505		
	EP 2004-1935	A3	20040129		

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

AB Durable and disposable articles are provided which include a thermoplastic polymer compn., which includes a blend of a polymer and

a modified polymer. The modified polymer has covalently bonded pendant substituents derived from cyclodextrin. The articles can be a films, coatings, nonwoven webs, or monolithic articles. An article can have the polymer compn. as one part of the article, such as in one distinct area of the article, or on the surface of the article, for example as a coating or surface film. The article can be, for example, a multilayer barrier film, a nonwoven sheet or pad, an absorbent article, or a storage container.

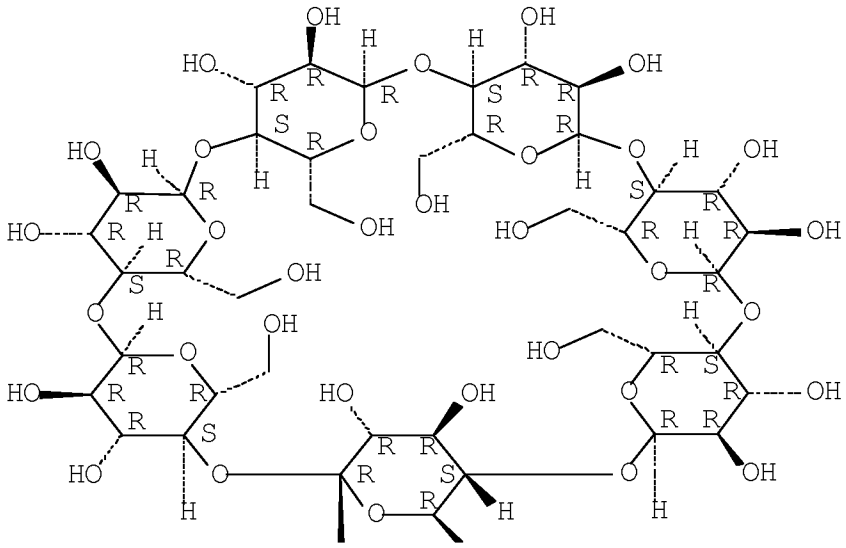
IT 7585-39-9DP, β-Cyclodextrin, esters with maleic anhydride copolymer blends
(polyolefin blends; resin blends contg. cyclodextrin-modified polymers and their use in coating, films, nowoven frabrics, packaging materials)

RN 7585-39-9 HCA

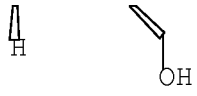
CN β-Cyclodextrin (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 2-A



INCL 428606000; 427385500; 428220000; 428077000; 442334000; 442351000; 442401000; 525231000; 525240000; 525055000
CC 38-3 (Plastics Fabrication and Uses)
Section cross-reference(s): 40, 42
IT Absorbents
Beverages
Bottles
Coating materials
Food
Fuel tanks
Laminated materials
Microfibers
Nonwoven fabrics
Packaging materials
Plastic films
Sealing compositions
(resin blends contg. cyclodextrin-modified polymers and their use in coating, films, nowoven frabrics, packaging materials)
IT 7585-39-9DP, β-Cyclodextrin, esters with maleic anhydride copolymer blends 10016-20-3DP, α-Cyclodextrin, esters with maleic anhydride copolymer blends 854053-02-4DP, Plexar PX 5125, esters with cyclodextrin
(polyolefin blends; resin blends contg. cyclodextrin-modified polymers and their use in coating, films, nowoven frabrics, packaging materials)
OSC.G 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

L47 ANSWER 2 OF 13 HCA COPYRIGHT 2009 ACS on STN
AN 143:31894 HCA Full-text
TI Dextrin fatty acid esters as oil gelling agents, their preparation, and oil gels and cosmetics containing the gelling agents
IN Tsukioka, Daisuke; Suzuki, Takanao
PA Chiba Seifun Co., Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 25 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 2005145851	A	20050609	JP 2003-383591	200311

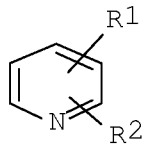
<--

JP 4079371 B2 20080423

PRAI JP 2003-383591 20031113 <--

OS MARPAT 143:31894

GI



I

AB Dextrin fatty acid esters, which satisfy (1) av. polymn. degree of monosaccharides is 10-150, (2) av. acyl group substitution degree ≥1.0 per glucose unit, and (3) acyl groups are C12-22 linear satd. acyl, C4-26 branched acyl, C6-30 unsatd. acyl and/or C2-11 linear satd. acyl and ≥50% of the constituent acyl groups is C12-22 linear satd. acyl, are prepd. by esterifying dextrin with fatty acid halides or acid anhydrides in the presence of pyridine derivs. I (R1 = Me, Et, CO2H, CO2Me, CONH2, NMe2; R2 = H, Me). Also claimed are oil gels and cosmetics contg. the oil gelling agents. The oil gelling agents are odorless, dissolve oils well and provide oil gels and cosmetics with no undissolved matters. Thus, palmityl chloride was added dropwise to a dispersion of dextrin and 3-methylpyridine at 50° over 30 min and the reaction mixt. was heated at 90° for 4 h to give dextrin palmitate (II) with av. acyl substitution degree 2.1 per glucose 2.1. A lipstick, lithog. inks, etc., contg. II were also formulated.

IT 852988-84-2P

(esterification of dextrin with acyl halides or acid anhydrides using substituted pyridines and use of the esters as oil gelling agents for cosmetics, etc.)

RN 852988-84-2 HCA

CN Dextrin, acetate hexadecanoate (9CI) (CA INDEX NAME)

CM 1

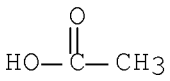
CRN 9004-53-9

CMF Unspecified

CCI PMS, MAN
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

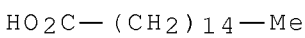
CM 2

CRN 64-19-7
CMF C2 H4 O2



CM 3

CRN 57-10-3
CMF C16 H32 O2



IC ICM A61K007-00
ICS A61K007-025; A61K007-032; A61K007-035; A61K007-48; C08B030-18; C09K003-00
CC 62-4 (Essential Oils and Cosmetics)
Section cross-reference(s): 33, 42
IT Inks
(lithog.; esterification of dextrin with acyl halides or acid anhydrides using substituted pyridines and use of the esters as oil gelling agents for cosmetics, etc.)
IT Coating materials
(oil-based; esterification of dextrin with acyl halides or acid anhydrides using substituted pyridines and use of the esters as oil gelling agents for cosmetics, etc.)
IT 98-92-0P, Nicotinamide 93792-77-9P, Dextrin myristate 112444-74-3P, Dextrin behenate 183387-52-2P, Dextrin 2-ethylhexanoate palmitate 260357-37-7P, Dextrin isostearate palmitate 852988-82-0P 852988-83-1P 852988-84-2P
(esterification of dextrin with acyl halides or acid anhydrides using substituted pyridines and use of the esters as oil gelling agents for cosmetics, etc.)

L47 ANSWER 3 OF 13 HCA COPYRIGHT 2009 ACS on STN
AN 142:454330 HCA Full-text
TI Composition for forming underlying film containing dextrin ester compound
IN Takei, Satoshi; Sakaida, Yasushi; Shinjo, Tetsuya
PA Nissan Chemical Industries, Ltd., Japan
SO PCT Int. Appl., 34 pp.
CODEN: PIXXD2
DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2005043248	A1	20050512	WO 2004-JP16129	20041029
				<--	
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	EP 1681594	A1	20060719	EP 2004-817421	20041029
				<--	
	EP 1681594	B1	20090513		
	R: DE, FR, GB, IT, NL				
	CN 1875324	A	20061206	CN 2004-80031792	20041029
				<--	
	JP 4203767	B2	20090107	JP 2005-515179	20041029
				<--	
	KR 2006116805	A	20061115	KR 2006-707986	20060425

                                                    <--
     US 20070135581   A1   20070614   US 2006-577854
                                                                  200604
                                                                  28
                                                    <--
PRAI JP 2003-370354   A   20031030 <--
     WO 2004-JP16129   W   20041029
ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
AB   Disclosed is a compn. for forming an underlying film for lithog. which is used in a lithog. process in semiconductor device prodn. Also disclosed is an underlying film for lithog. which has a higher dry etching rate than a photoresist and does not cause intermixing with the photoresist. The compn. for forming an underlying film for lithog. contains a dextrin ester compd. wherein at least 50% of hydroxyl groups are transformed to ester groups, a crosslink-able compd. and an org. solvent.
IT   9004-53-9D, Dextrin, acetoxylated
        (compn. for forming underlying film contg. dextrin ester compd.)
RN   9004-53-9 HCA
CN   Dextrin (CA INDEX NAME)
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
IC   ICM G03F007-11
     ICS H01L021-027
CC   74-5 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
     Section cross-reference(s): 76
ST   compn underlying film dextrin ester photolithog
IT   Photolithography
     Semiconductor device fabrication
        (compn. for forming underlying film contg. dextrin ester compd.)
IT   Coating materials
        (undercoatings; compn. for forming underlying film contg. dextrin ester compd.)
IT   9004-53-9D, Dextrin, acetoxylated
     9004-53-9D, Dextrin, benzoated   17464-88-9, Tetramethoxymethyl glycoluril
        (compn. for forming underlying film contg. dextrin ester compd.)
RE   CITED REFERENCES
(1) Hitachi Ltd; JP 62-62521 A 1987
(2) Nissan Chemical Industries Ltd; WO 0205035 A1 2002 HCA
(3) Nissan Chemical Industries Ltd; EP 1315045 A 2002 HCA
(4) Nissan Chemical Industries Ltd; WO 2004061526 A1 2004 HCA
(5) Shin-Etsu Chemical Co Ltd; JP 2002107938 A 2002 HCA
(6) Shipley Co L L C; EP 1035442 A2 2000 HCA
(7) Shipley Co L L C; JP 2000294504 A 2000 HCA

(8) Shipley Co L L C; EP 1150343 A2 2002 CAPLUS
(9) Shipley Co L L C; JP 200247430 A 2002
OSC.G 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

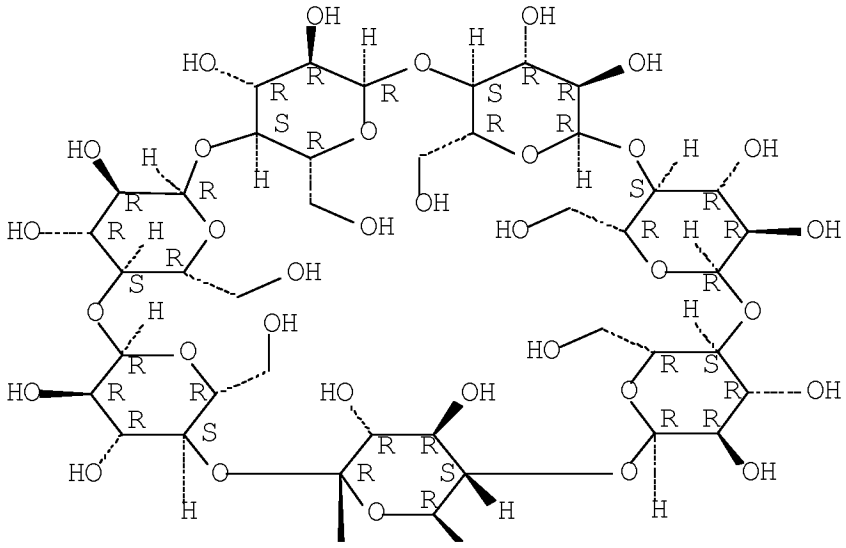
L47 ANSWER 4 OF 13 HCA COPYRIGHT 2009 ACS on STN
AN 140:2591 HCA Full-text
TI Peptide derivatives, and their use for the synthesis of silicon-based composite materials
IN McAuliffe, Joseph C.; Bond, Risha Lindig; Cuevas, William A.
PA Dow Corning Corporation, USA; Genencor International, Inc.
SO PCT Int. Appl., 52 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2003099843	A2	20031204	WO 2003-US15859	20030520
				<--	
	WO 2003099843	A3	20040701		
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	CA 2485169	A1	20031204	CA 2003-2485169	20030520
				<--	
	AU 2003233595	A1	20031212	AU 2003-233595	20030520
				<--	
	US 20040039179	A1	20040226	US 2003-441908	20030520
				<--	

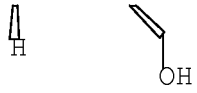
US 7361731 B2 20080422
EP 1551762 A2 20050713 EP 2003-729032
200305
20
<--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK
US 20080182971 A1 20080731 US 2007-876258
200710
22
<--
PRAI US 2002-381928P P 20020520 <--
US 2003-441908 A1 20030520 <--
WO 2003-US15859 W 20030520 <--
ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
AB Methods for forming peptide derivs. using functional moieties and peptide derivs. are provided. Further, methods for using peptide derivs. to form silicon-based composite materials and silicon-based composite materials formed thereby are provided. The silicon-based composite materials may have features on the nanoscale, and the materials may exhibit characteristics derived from the functional moieties on the peptide derivs. It is emphasized that this abstr. is provided to comply with the rules requiring an abstr. which will allow a searcher or other reader to quickly ascertain the subject matter of the tech. disclosure. It is submitted with the understanding that is will not be used to interpret or limit the scope or meaning of the claims.
IT 7585-39-9D, β-Cyclodextrin, carboxy Me ester derivs.
(peptide derivs., and their use for synthesis of silicon-based composite materials)
RN 7585-39-9 HCA
CN β-Cyclodextrin (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 2-A



IC ICM C07K
CC 9-16 (Biochemical Methods)
IT Ink-jet printing
Lithography
pH
(peptide derivs., and their use for synthesis of silicon-based composite materials)
IT 52-90-4, Cysteine, analysis 56-45-1, L-Serine, analysis 56-85-9, L-Glutamine, analysis 56-87-1, L-Lysine, analysis 57-88-5, Cholesterol, analysis 58-85-5, D-Biotin 60-00-4, EDTA, analysis 60-18-4, L-Tyrosine, analysis 70-47-3, L-Asparagine, analysis 71-00-1, L-Histidine, analysis 72-19-5, L-Threonine, analysis 74-79-3, L-Arginine, analysis 75-77-4, Trimethylchlorosilane, analysis 98-13-5, Phenyltrichlorosilane 143-07-7, Lauric acid, analysis 149-74-6, Phenylmethyldichlorosilane 681-84-5,

Tetramethoxysilane 919-30-2, 3-Aminopropyltriethoxysilane 1112-39-6, Dimethyldimethoxysilane 1185-55-3, Methyltrimethoxysilane 3786-54-7, 1-Pyrenemethylamine 7585-39-9D, β-Cyclodextrin, carboxy Me ester derivs. 9014-01-1, Subtilisin 9073-60-3, β-Lactamase 10193-36-9, Orthosilicic acid 60239-22-7 64709-55-3, 1-Pyrene acetic acid 72088-94-9, 5(6)-Carboxyfluorescein 143413-47-2 380488-45-9 444084-12-2 444084-13-3 444084-14-4 444084-15-5 444084-16-6 444084-17-7 444084-18-8 627529-62-8 627529-63-9 627529-64-0 627529-65-1 627529-66-2 627529-67-3 627529-68-4 627529-69-5
(peptide derivs., and their use for synthesis of silicon-based composite materials)

RE CITED REFERENCES

(1) Anon; WO 9732892 A1 HCA

OSC.G 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

L47 ANSWER 5 OF 13 HCA COPYRIGHT 2009 ACS on STN

AN 135:93032 HCA Full-text

TI Manufacture and polymerization of acrylic monomer-cyclodextrin complexes as binders for lacquers and coatings

IN Flosbach, Carmen; Gloeckner, Patrick; Klostermann, Peter; Paschmann, Volker; Ritter, Helmut

PA E. I. Du Pont de Nemours & Co., USA

SO PCT Int. Appl., 27 pp.
CODEN: PIXXD2

DT Patent

LA German

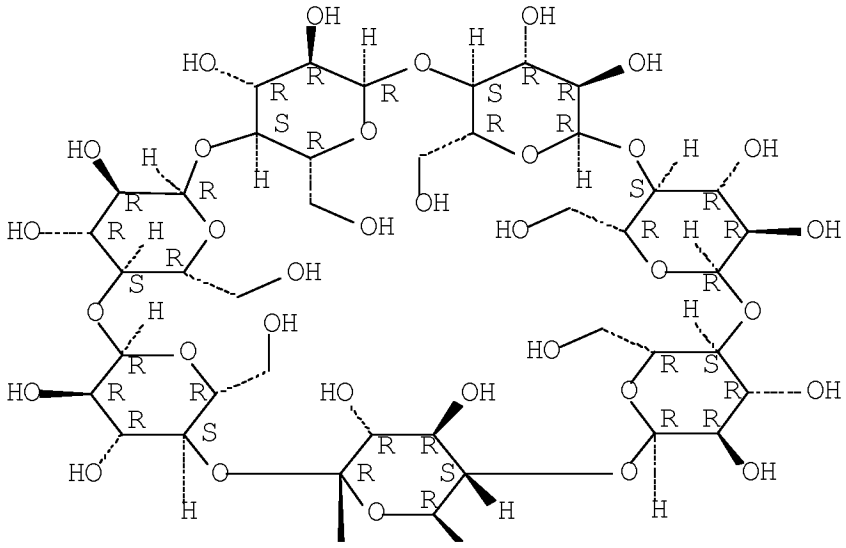
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2001049746	A1	20010712	WO 2000-EP12648	200012 13
			<--	
W: AL, AU, BA, BG, BR, CA, CN, CZ, EE, HU, JP, KR, LT, LV, MX, NO, PL, RO, RU, SG, SI, SK, TR, UA, US, YU				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR				
DE 19963586	A1	20010712	DE 1999-19963586	199912 29
			<--	
EP 1252197	A1	20021030	EP 2000-983310	200012

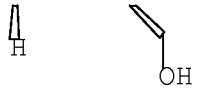
13
<--
EP 1252197 B1 20030730
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
AT 246207 T 20030815 AT 2000-983310
200012
13
<--
PT 1252197 T 20031231 PT 2000-983310
200012
13
<--
ES 2200980 T3 20040316 ES 2000-983310
200012
13
<--
US 20030130416 A1 20030710 US 2002-169675
200207
01
<--
PRAI DE 1999-19963586 A 19991229 <--
WO 2000-EP12648 W 20001213 <--
ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
AB The binders for lacquers and coatings, esp. for powder coatings, are manufd. by radical homopolymn. or copolymn. of H2O-insol. ethylenically unsatd. monomers, optionally together with H2O-sol. monomers. The homopolymn. or copolymn. is carried out in an aq. medium in the presence of conventional polymn. initiators, until polymers with an av. mol. wt. of 1000-1,000,000 are obtained. The polymn. takes place in the presence of cyclodextrin or cyclodextrin derivs. and/or the H2O-insol. monomers are used in the form of complexes contg. cyclodextrin and/or cyclodextrin derivs. For example, adding isobornyl acrylate to aq. soln. of partially methylated β-cyclodextrin and exposing the mixt. to ultrasound gave a soln. of 1:1 monomer-cyclodextrin complex. Adding K2S2O8 and NaHSO3 to the soln. under N gave, after 12 h, 93% polymer free from the monomer complex.
IT 7585-39-9DP, β-Cyclodextrin, methylated, compds. with (meth)acrylate esters, polymers
(manuf. and polymn. of acrylic monomer-cyclodextrin complexes as binders for lacquers and coatings)
RN 7585-39-9 HCA
CN β-Cyclodextrin (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 2-A



IC ICM C08F002-24
ICS C08F251-00; C09D133-06

CC 35-4 (Chemistry of Synthetic High Polymers)
Section cross-reference(s): 42

IT **Coating materials**
(manuf. and polymn. of acrylic monomer-cyclodextrin complexes as binders for lacquers and)

IT **Coating materials**
(powder; manuf. and polymn. of acrylic monomer-cyclodextrin complexes as binders for lacquers and coatings)

IT 80-62-6DP, Methyl methacrylate, compds. with β-cyclodextrin, polymers 97-88-1DP, Butyl methacrylate, compds. with β-cyclodextrin, polymers 100-42-5DP, Styrene, compds. with β-cyclodextrin, polymers 101-43-9DP, Cyclohexyl methacrylate,

compds. with β-cyclodextrin, polymers 106-91-2DP, Glycidyl methacrylate, compds. with β-cyclodextrin, polymers 141-32-2DP, Butyl acrylate, compds. with β-cyclodextrin, polymers 818-61-1DP, compds. with β-cyclodextrin, polymers 868-77-9DP, compds. with β-cyclodextrin, polymers 2210-25-5DP, N-Isopropylacrylamide, compds. with β-cyclodextrin, copolymers with styrene 5888-33-5DP, Isobornyl acrylate, compds. with β-cyclodextrin, polymers 7534-94-3DP, Isobornyl methacrylate, compds. with β-cyclodextrin, polymers 7585-39-9DP, β-Cyclodextrin, methylated, compds. with (meth)acrylate esters, polymers
(manuf. and polymn. of acrylic monomer-cyclodextrin complexes as binders for lacquers and coatings)

RE CITED REFERENCES

(1) Basf; EP 0780401 A 1997 HCA
(2) Basf; DE 19533269 A 1997 HCA
(3) National Starch And Chem Investment Holding Corp; EP 0889058 A 1999 HCA
(4) Rohm And Haas Co; EP 0710675 A 1996 HCA

OSC.G 4 THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD (4 CITINGS)

L47 ANSWER 6 OF 13 HCA COPYRIGHT 2009 ACS on STN
AN 134:36501 HCA Full-text
TI Microsensors and nanoporous polymers for detection and removal organic compounds
AU Li, DeQuan; Ma, Min
CS Los Alamos National Laboratory, Los Alamos, NM, 87545, USA
SO Chemical Sensors, Technical Digest of the International Meeting, 7th, Beijing, China, July 27-30, 1998 (1998), 44-46
Publisher: International Academic Publishers, Beijing, Peop. Rep. China.
CODEN: 69AJWI
DT Conference
LA English
AB Cyclodextrin thin films were fabricated using either self-assembled monolayers (SAM) or sol-gel techniques. The resulting host receptor thin films on the substrates of surface acoustic wave (SAW) resonators were studied as a method of tracking org. toxins in vapor phase. Monolayer cyclodextrin coatings on 200 MHz SAW devices yielded ppm sensitivity while thicker sol-gel coatings gave responses indicating middle-ppb-sensitivity (.apprx.50 ppb) for those sensor-host-receptors and org.-toxin pairs with optimum mutual matching of polarity, size, and structural properties. Also, the cyclodextrin polymers are efficient in removing orgs. from water down to ppb

levels; which rendered these polymers having great potential for advanced water purifn.

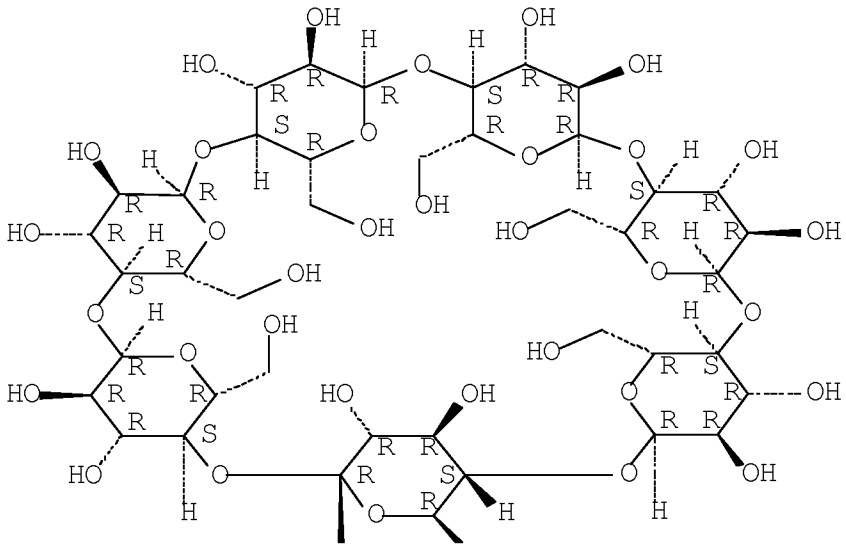
IT 7585-39-9, β-Cyclodextrin
(benzoation of)

RN 7585-39-9 HCA

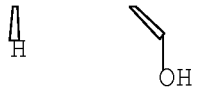
CN β-Cyclodextrin (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 2-A



CC 80-2 (Organic Analytical Chemistry)
Section cross-reference(s): 61

IT Coating process
(sol-gel; cyclodextrin thin film for SAW sensors for detection of org. vapors)

IT 7585-39-9, β-Cyclodextrin
(benzoation of)
RE CITED REFERENCES
(1) Boger, J; Helvetica Chimica Acta 1978, V61, P2190 HCA
(2) Campbell, C; Surface Acoustic Wave Devices and Their Signal Processing Applications 1989
(3) Cornell, F; Proc Natl Symp on Measuring and Interpreting VOCs is Soil:State of the Art and Research Needs 1993
(4) Cramer, F; J Am Chem Soc 1967, V89, P14 HCA
(5) Dickert, F; Adv Mater 1991, V3, P436 HCA
(6) Feldmann, M; Surface Acoustic Wave for Signal Processing 1989
(7) Grate, J; Anal Chem 1988, V60(17), P869
(8) Grate, J; Anal Chem 1991, V63(17), P1719 HCA
(9) Grate, J; Anal Chem 1992, V64, P610 HCA
(10) Harata, K; Bull Chem Soc Jpn 1975, V48, P2049
(11) Henricks, A; The Cost Effectiveness of Field Screening for VOCs, Emerging Technology Symposium 1993
(12) Li, D; Langmiur 1993, V9(12), P3341 HCA
(13) Moore, L; Adv Mater 1995, V7, P729 HCA
(14) Takeo, K; J Carbohydrate Chem 1988, V7(2), P293 HCA
(15) Teiichi, M; Chem Express 1989, V4, P645

L47 ANSWER 7 OF 13 HCA COPYRIGHT 2009 ACS on STN
AN 127:249612 HCA Full-text
OREF 127:48765a,48768a
TI Paper and paperboard coated or laminated with films that trap environmental contaminants for food packaging
IN Wood, Willard E.; Beaverson, Neil J.
PA Cellresin Technologies, Llc, USA
SO PCT Int. Appl., 73 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 6

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 9733044	A1	19970912	WO 1997-US2580	19970220
W: BR, CA, CN, JP, KR, MX, SG RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
US 5776842	A	19980707	US 1996-603337	19960220

<--

				<--
EP 888480	A1	19990107	EP 1997-906672	19970220
				<--
EP 888480	B1	20020123		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
BR 9707860	A	19990727	BR 1997-7860	19970220
				<--
JP 2001503340	T	20010313	JP 1997-531785	19970220
				<--
AT 212396	T	20020215	AT 1997-906672	19970220
				<--
US 5882565	A	19990316	US 1997-861904	19970522
				<--
HK 1017398	A1	20020830	HK 1999-102305	19990524
				<--
PRAI US 1996-603337	A	19960220	<--	
US 1994-264771	A2	19940623	<--	
US 1995-570599	A1	19951211	<--	
US 1996-755461	B1	19961122	<--	
WO 1997-US2580	W	19970220	<--	

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

AB Laminated films or coatings on paper and paperboard contain cyclodextrin derivs. with substituents that allow the deriv. to be compatible with the polymer in the film or coating and that trap environmental contaminants for use in packaging of food. A typical film was based on LLDPE and contained 0.5% β-cyclodextrin trimethylsilyl ether.

IT 113573-77-6, β-Cyclodextrin acetate
(paper and paperboard coated or laminated with films contg. cyclodextrin derivs. that trap environmental contaminants for food packaging)

RN 113573-77-6 HCA

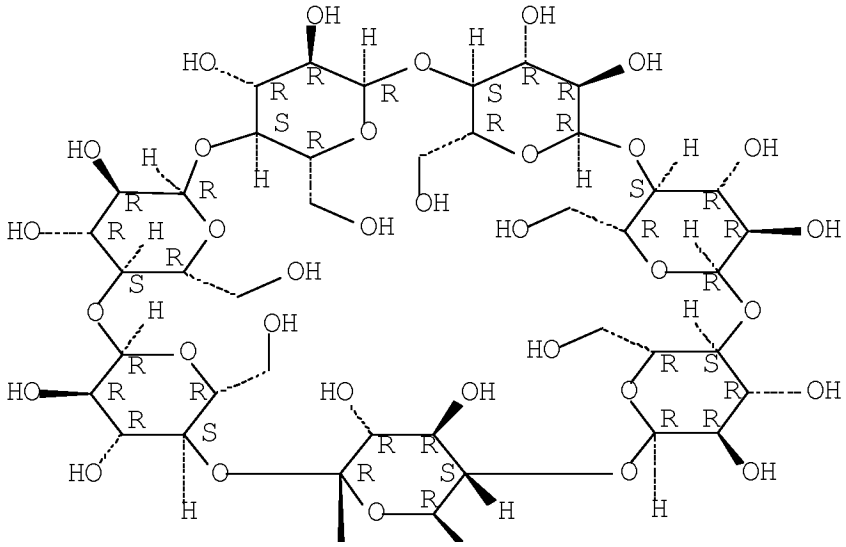
CN β-Cyclodextrin, acetate (CA INDEX NAME)

CM 1

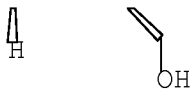
CRN 7585-39-9
CMF C42 H70 O35

Absolute stereochemistry.

PAGE 1-A

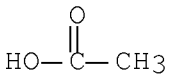


PAGE 2-A



CM 2

CRN 64-19-7
CMF C2 H4 O2



IC ICM D21H027-10
ICS D21H019-24
CC 43-9 (Cellulose, Lignin, Paper, and Other Wood Products)
Section cross-reference(s): 17
IT **Coating materials**
Food
(paper and paperboard coated or laminated with films contg. cyclodextrin derivs. that trap environmental contaminants for food packaging)
IT **113573-77-6**, β-Cyclodextrin acetate
(paper and paperboard coated or laminated with films contg. cyclodextrin derivs. that trap environmental contaminants for food packaging)
RE CITED REFERENCES
(1) Anon; EP 0454910 A1 HCA
(2) Anon; DE 19520989 A1 HCA
(3) Anon; US 4357468 A HCA
OSC.G 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)

L47 ANSWER 8 OF 13 HCA COPYRIGHT 2009 ACS on STN
AN 126:76193 HCA Full-text
OREF 126:14727a,14730a
TI Use of inclusion compounds of cyclic polysaccharides as charge control agents
IN Baur, Ruediger; Macholdt, Hans-Tobias
PA Hoechst A.-G., Germany
SO Eur. Pat. Appl., 28 pp.
CODEN: EPXXDW
DT Patent
LA German
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI EP 742230	A2	19961113	EP 1996-107060	19960506 <--
EP 742230	A3	19971001		

R: BE, CH, DE, FR, GB, IT, LI, NL

DE 19517034	A1	19961114	DE 1995-19517034	19950510 <--
CA 2176398	A1	19961111	CA 1996-2176398	19960509 <--
JP 08325305	A	19961210	JP 1996-115127	19960509 <--
US 5800602	A	19980901	US 1996-647067	19960509 <--
PRAI DE 1995-19517034	A	19950510 <--		

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OS MARPAT 126:76193

AB Inclusion compds. of cyclic polysaccharides are useful for controlling charges in electrophotog. toners and developers, triboelec. and electrokinetic sprayable powders and powd. varnishes, and electrets. A typical inclusion compd. was manufd. by heating 60 mL water contg. 0.84 g LiCl and 12.9 g γ-cyclodextrin at 30-100° until a clear soln. was obtained, removing the water in vacuo at 30-100°.

IT **160433-81-8**
(inclusion compds. of cyclic polysaccharides as charge control agents in electrophotog. toners and powd. varnishes)

RN 160433-81-8 HCA

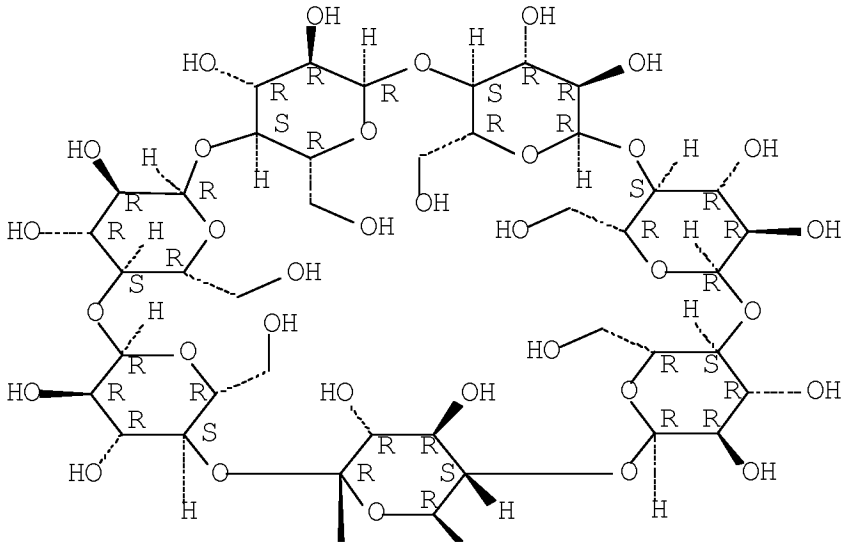
CN β-Cyclodextrin, compd. with sodium acetate (9CI) (CA INDEX NAME)

CM 1

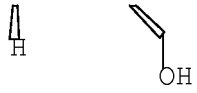
CRN 7585-39-9
CMF C42 H70 O35

Absolute stereochemistry.

PAGE 1-A

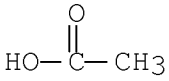


PAGE 2-A



CM 2

CRN 127-09-3
CMF C2 H4 O2 . Na



● Na

IC ICM C08B037-16
ICS G03G009-097; C09D005-03
CC 42-5 (Coatings, Inks, and Related Products)
Section cross-reference(s): 74
IT **Coating materials**
(powder, triboelec.; inclusion compds. of cyclic polysaccharides as charge control agents in electrophotog. toners and powd. varnishes)
IT 7585-39-9D, β-Cyclodextrin, inclusion compds. with quaternary ammonium salts 17465-86-0D, γ-Cyclodextrin, inclusion compds. with quaternary ammonium salts 33999-35-8 34003-97-9 51128-12-2 126306-73-8 152195-65-8 **160433-81-8**
184717-41-7 184717-42-8 184717-43-9 184717-44-0 184717-45-1
184717-46-2 184717-47-3 184717-48-4 184717-50-8 184717-51-9
184717-52-0 184717-53-1 184717-54-2 184717-55-3 184717-57-5
184717-58-6 184717-59-7 184717-60-0 184717-61-1 184717-62-2
184717-63-3 184717-64-4 184717-65-5 184717-66-6 184717-67-7
184717-68-8 184717-69-9 184717-70-2 184717-71-3 184717-72-4
184717-73-5 184717-74-6 184717-75-7 184717-76-8 184717-77-9
184717-78-0 184717-79-1 184717-80-4 184717-81-5 184717-82-6
184717-83-7 184717-84-8 184717-85-9 184717-86-0 184717-87-1
184717-88-2 184717-89-3 184717-90-6 184717-91-7 184717-92-8
184717-93-9 184717-94-0 184717-95-1 184717-96-2 184717-97-3
184717-98-4 185322-54-7
(inclusion compds. of cyclic polysaccharides as charge control agents in electrophotog. toners and powd. varnishes)

L47 ANSWER 9 OF 13 HCA COPYRIGHT 2009 ACS on STN
AN 125:88155 HCA Full-text
OREF 125:16633a,16636a
TI Redispersible powdered polymers containing cyclodextrins or their derivatives
IN Figge, Reiner; Haas, Wolfgang
PA Wacker-Chemie GmbH, Germany
SO Ger. Offen., 14 pp.
CODEN: GWXXBX
DT Patent
LA German
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI DE 4440236	A1	19960515	DE 1994-4440236	19941110

<--

CA 2203408 A1 19960523 CA 1995-2203408
199511
09
<--
WO 9615187 A1 19960523 WO 1995-EP4412
199511
09
<--
W: CA, CN, FI, JP, KR, NO, US
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT,
SE
EP 791033 A1 19970827 EP 1995-939247
199511
09
<--
EP 791033 B1 19980701
R: AT, BE, CH, DE, ES, FR, GB, IT, LI, NL, SE
CN 1162969 A 19971022 CN 1995-196161
199511
09
<--
CN 1078899 C 20020206
JP 09511782 T 19971125 JP 1995-515716
199511
09
<--
JP 2942935 B2 19990830
AT 167889 T 19980715 AT 1995-939247
199511
09
<--
ES 2119496 T3 19981001 ES 1995-939247
199511
09
<--
US 5777003 A 19980707 US 1997-809386
199703
19
<--
NO 9702148 A 19970509 NO 1997-2148
199705
09
<--
FI 9701983 A 19970610 FI 1997-1983
199705
09
<--

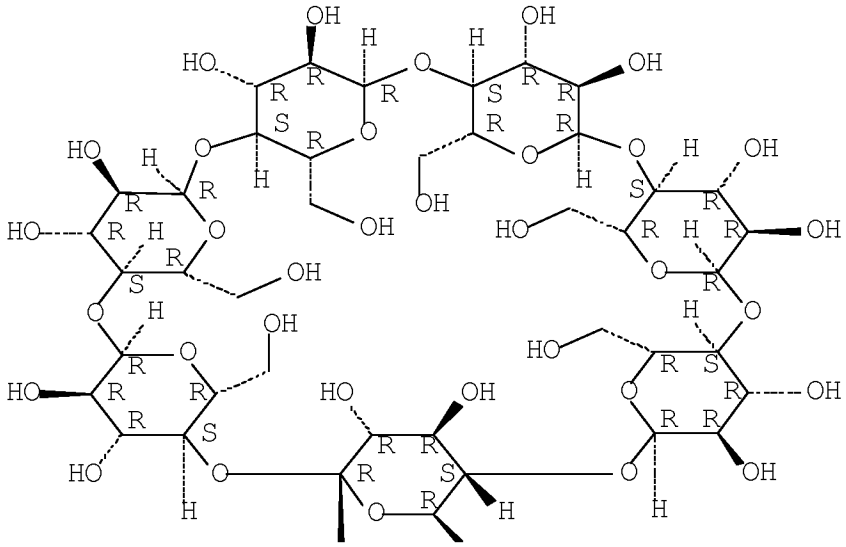
PRAI DE 1994-4440236 A 19941110 <--
WO 1995-EP4412 W 19951109 <--
ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
AB The title compns., with as narrow a range of compns. as possible, contain cyclodextrins or their alkyl, hydroxyalkyl, and/or carboxyalkyl derivs. of specified structure as protective colloids. Redox polymn. of 30% acrylamide 3.69, styrene 16.6, and Bu acrylate 16.6 kg in the presence of 1.85 kg cyclodextrin gave a 44.5% emulsion (pH 3.7) of copolymer with av. particle size 350 nm, contg. almost no coarse particles. The use of this emulsion in the prepn. of redispersible powders is exemplified.
IT **28986-04-1**, β-Cyclodextrin monoacetate
(dispersant; redispersible powd. polymers contg. cyclodextrins or their derivs.)
RN 28986-04-1 HCA
CN β-Cyclodextrin, monoacetate (9CI) (CA INDEX NAME)

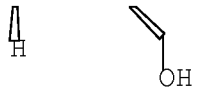
CM 1

CRN 7585-39-9
CMF C42 H70 O35

Absolute stereochemistry.

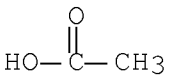
PAGE 1-A





CM 2

CRN 64-19-7
CMF C2 H4 O2



IC ICM C08L057-00
ICS C08L005-16; C08J003-12; C08F002-22; C04B024-38; C08F002-44; C08F006-14; C09D157-00; C09D005-34; C09D007-12
ICI C08L057-00, C08L033-06, C08L031-02, C08L027-00, C08L025-00, C08L023-02; C09J157-00, C09J105-16; C09D157-00, C09D133-06
CC 37-6 (Plastics Manufacture and Processing)
Section cross-reference(s): 44
IT Adhesives
Binding materials
Coating materials
Mortar
(redispersible powd. polymers contg. cyclodextrins or their derivs. for use in)
IT 7585-39-9, β-Cyclodextrin 7585-39-9D, β-Cyclodextrin, Me and hydroxypropyl and carboxymethyl ethers 10016-20-3, α-Cyclodextrin 17465-86-0, γ-Cyclodextrin
28986-04-1, β-Cyclodextrin monoacetate
(dispersant; redispersible powd. polymers contg. cyclodextrins or their derivs.)
OSC.G 5 THERE ARE 5 CAPLUS RECORDS THAT CITE THIS RECORD (5 CITINGS)

L47 ANSWER 10 OF 13 HCA COPYRIGHT 2009 ACS on STN
AN 124:59731 HCA Full-text

OREF 124:11201a,11204a

TI Partially acylated β-cyclodextrins.

IN Hirsenkorn, Rolf

PA Consortium fuer Elektrochemische Industrie GmbH, Germany

SO Eur. Pat. Appl., 12 pp.
CODEN: EPXXDW

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 678525	A1	19951025	EP 1995-105907	19950420
				<--	
	EP 678525	B1	19980128		
	R: BE, DE, FR, GB, IT, NL				
	DE 4414128	A1	19951026	DE 1994-4414128	19940422
				<--	
	CA 2147224	A1	19951023	CA 1995-2147224	19950418
				<--	
	CA 2147224	C	20020702		
	US 5633368	A	19970527	US 1995-423887	19950418
				<--	
	JP 07300501	A	19951114	JP 1995-97278	19950421
				<--	
	JP 2574664	B2	19970122		
	CN 1112129	A	19951122	CN 1995-104760	19950422
				<--	
	CN 1088716	C	20020807		
PRAI	DE 1994-4414128	A	19940422	<--	

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OS MARPAT 124:59731

AB Partially acylated β-cyclodextrins, prepd. by the reaction of β-cyclodextrin (I) with an acylating agent in the presence of a basic catalyst, are useful for solubilization of difficultly water-sol.

compds., e.g. steroids; as formulation aids in pharmaceutical, cosmetic, and agrochem. products; for stabilization of light-, heat-, or oxidn.-sensitive materials; for de-greasing and cleaning of desired surfaces; for substitution of org. solvents, esp. in sepn. and extn. of substances from lipophilic media; as auxiliaries, esp. in the coating and(or) adhesion adjustment in the paper, leather, and textile industries; as phase-transfer catalysts; or for flavor and odor masking. Thus, I and Na acetate were suspended in acetic acid and heated to 105°; then acetic anhydride was slowly added dropwise during 1 h. The mixt. was heated at reflux until it dissolved (after .apprx.14 h) and cooled to room temp. to give acetyl-β-cyclodextrin.

IT 99490-09-2P 113573-77-6P
(partially acylated β-cyclodextrins as solubilizers and solvents and stabilizers)

RN 99490-09-2 HCA

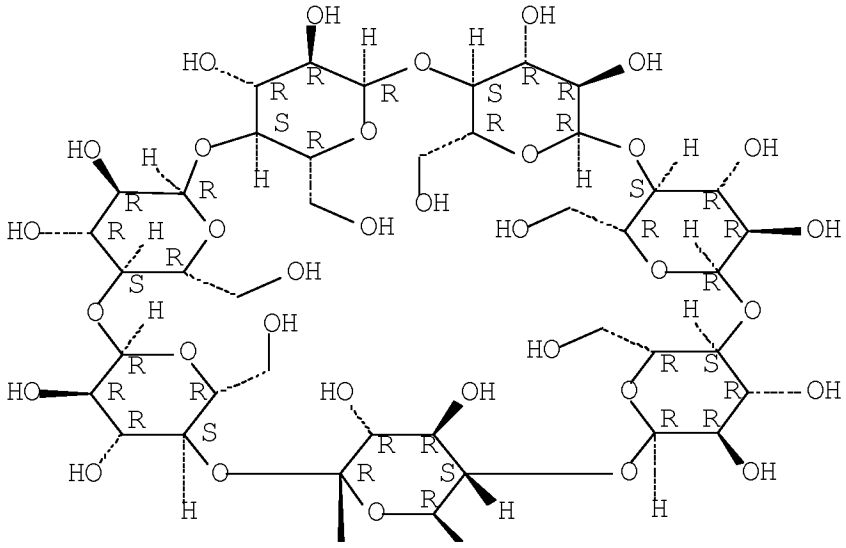
CN β-Cyclodextrin, propanoate (9CI) (CA INDEX NAME)

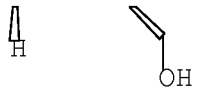
CM 1

CRN 7585-39-9
CMF C42 H70 O35

Absolute stereochemistry.

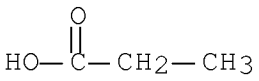
PAGE 1-A





CM 2

CRN 79-09-4
CMF C3 H6 O2



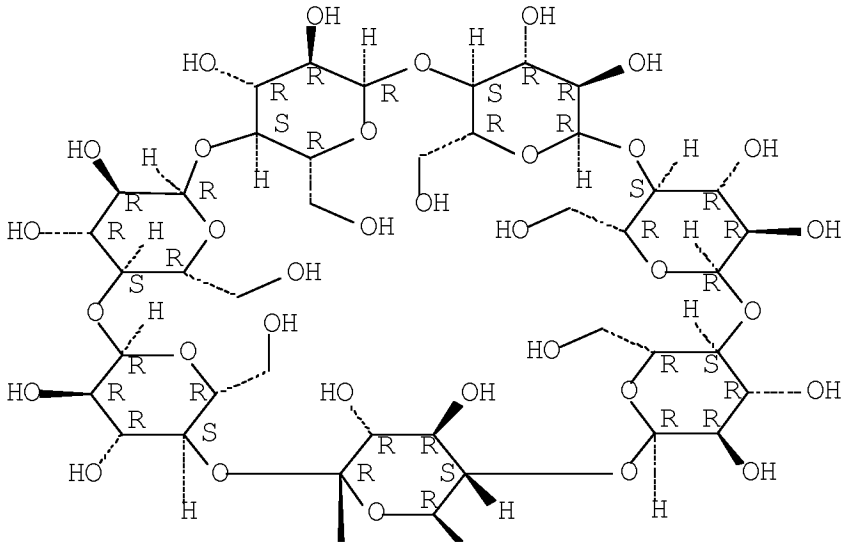
RN 113573-77-6 HCA
CN β-Cyclodextrin, acetate (CA INDEX NAME)

CM 1

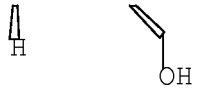
CRN 7585-39-9
CMF C42 H70 O35

Absolute stereochemistry.

PAGE 1-A

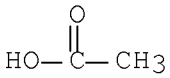


PAGE 2-A



CM 2

CRN 64-19-7
CMF C2 H4 O2



IC ICM C08B037-16
CC 44-6 (Industrial Carbohydrates)

IT 7585-39-9DP, β-Cyclodextrin, acylated 99490-09-2P
113573-77-6P
(partially acylated β-cyclodextrins as solubilizers and solvents and stabilizers)
OSC.G 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)

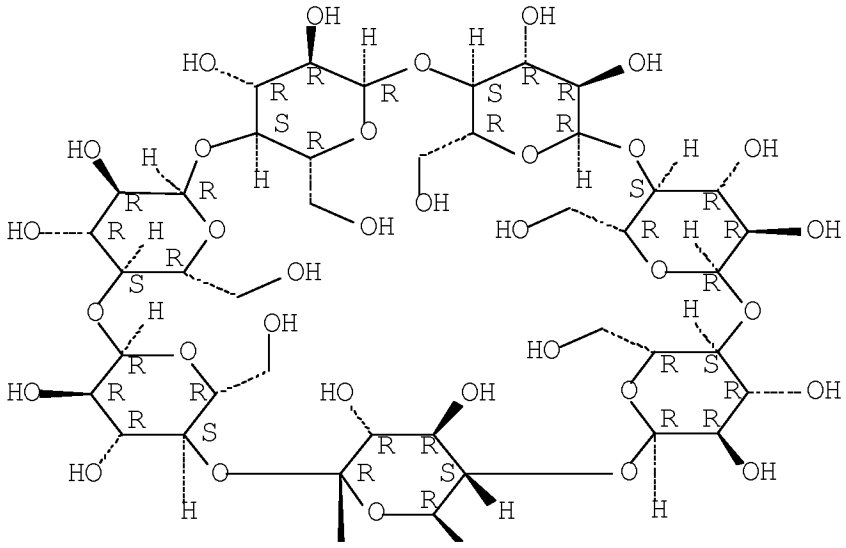
L47 ANSWER 11 OF 13 HCA COPYRIGHT 2009 ACS on STN
AN 108:152240 HCA Full-text
OREF 108:24997a,25000a
TI Persistent fragrant and insect repellent coatings for buildings
IN Zhu, Yuanzheng
PA Peop. Rep. China
SO Faming Zhuanli Shenqing Gongkai Shuomingshu, 4 pp.
CODEN: CNXXEV
DT Patent
LA Chinese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI CN 85102849	A	19860716	CN 1985-102849	19850401 <--
PRAI CN 1985-102849		19850401 <--		

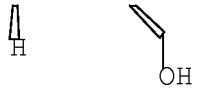
AB The title coating materials contain oligosaccharide-insecticide inclusion compds. and microencapsulated perfumes. A coating material contained an oligosaccharide-insecticide inclusion compd. 0.25, microencapsulated perfumes 0.5, Zn stearate 3, aq. 801 building glue (solids 8-10%) 100, Ti white (A101, A102) 4, lithopone (28-30% ZnS) 10, light $CaCO_3$ 300, talc 13, pigments 1-10 parts, nonionic surfactants, water, and urea.
IT 7585-39-9D, inclusion compds. with chrysanthemic acid esters
(insecticides, coatings contg. microencapsulated perfumes and)
RN 7585-39-9 HCA
CN β-Cyclodextrin (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 2-A



IC ICM C09D005-00
CC 42-10 (Coatings, Inks, and Related Products)
Section cross-reference(s): 5, 40
IT **Coating materials**
(contg. β-cyclodextrin-insecticide inclusion compds. and microencapsulated perfumes, for buildings)
IT **7585-39-9D**, inclusion compds. with chrysanthemic acid esters **10453-89-1D**, esters, inclusion compds. with cyclodextrin **90052-68-9**
(insecticides, coatings contg. microencapsulated perfumes and)

L47 ANSWER 12 OF 13 HCA COPYRIGHT 2009 ACS on STN
AN 88:171957 HCA Full-text
OREF 88:27095a,27098a
TI Aqueous compositions containing starch ester dispersants

IN Glowaky, Raymond Charles; Rudolph, Stephen Edward; Bierwagen, Gordon Paul
PA Sherwin-Williams Co., USA
SO U.S., 12 pp.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4061611	A	19771206	US 1976-725604	19760922 <--

PRAI US 1976-725604 19760922 <--

AB Low-mol.-wt. hydrolyzed starch having a plurality of anhydroglucose units or a deriv. of this starch is esterified by ≥0.5 mols./anhydroglucose unit of acylating agent consisting of 0.1-2.9 mols. ≥1 polycarboxylic acid anhydride and 0.1-2.9 mols. ≥1 monocarboxylic acid anhydride to give dispersing agents useful in replacing dispersing agents derived from petrochem. for water-based paints. Thus, 500 parts propionic anhydride [123-62-6] was added in 2 h at 180°F to 400 parts C5H5N soln. contg. 250 parts com. hydrolyzed waxy maize starch (dextrose equiv. 5-6, ester substitution <0.1), and the reaction mixt. was heated an addnl. 2 h at 180°F to give an intermediate mixt., to which 77 parts succinic anhydride [108-30-5] was added in 30 min, and the reaction mixt. was heated an addnl. 2 h at 180°F to give starch propionate succinate (I) [62655-92-9]. Gloss house paint contg. I as dispersant gave coatings with similar phys. properties to the same paint contg. Tamol 731 as dispersant.

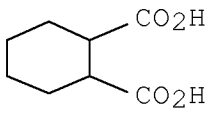
IT 62655-70-3P
(manuf. of, for dispersing agents for water-based paints)
RN 62655-70-3 HCA
CN Dextrin, acetate hydrogen 1,2-cyclohexanedicarboxylate (9CI) (CA INDEX NAME)

CM 1

CRN 9004-53-9
CMF Unspecified
CCI PMS, MAN
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

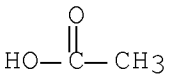
CM 2

CRN 1687-30-5
CMF C8 H12 O4



CM 3

CRN 64-19-7
CMF C2 H4 O2



IC C08L003-06
INCL 260017400ST
CC 42-7 (Coatings, Inks, and Related Products)
Section cross-reference(s): 44, 46
IT **Coating materials**
(water-thinned paints, dispersing agent for, starch diacid monoacid mixed esters as)
IT 61869-77-0P **62655-70-3P** 62655-87-2P 62655-88-3P
62655-91-8P 65547-38-8P
(manuf. of, for dispersing agents for water-based paints)
OSC.G 7 THERE ARE 7 CAPLUS RECORDS THAT CITE THIS RECORD (7 CITINGS)

L47 ANSWER 13 OF 13 HCA COPYRIGHT 2009 ACS on STN
AN 86:141971 HCA Full-text
OREF 86:22299a,22302a
TI Mixed starch esters
IN Rudolph, Stephen E.; Glowaky, Raymond C.
PA Sherwin-Williams Co., USA
SO Ger. Offen., 59 pp.
CODEN: GWXXBX
DT Patent
LA German
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 2639349	A1	19770303	DE 1976-2639349 <--	19760901
	US 4011392	A	19770308	US 1975-609327 <--	19750902
	CA 1042879	A1	19781121	CA 1976-252742 <--	19760518
	JP 52029884	A	19770307	JP 1976-94576 <--	19760810
	FR 2322872	A1	19770401	FR 1976-26120 <--	19760830
	GB 1562302	A	19800312	GB 1976-36505 <--	19760902
PRAI	US 1975-609327	A	19750902 <--		

AB Reacting hydrolyzed starch (I) [9005-25-8] or dextrin with mono- and polycarboxylic anhydrides in the presence of pyridine (II) or DMF gave I esters for use in coating. Thus, a mixt. of I 194.8, H2O 5.2, Ac2O 262.2, succinic anhydride 77.7 and II 200.0 parts was stirred for total .apprx.5 h at 82° to give hydrolyzed starch acetate succinate (III) with 2.5 total substitution degree (SD). Applying a mixt., having 20% pigment vol. concn. of neutralized III (total SD 2.19) contg. 30% aminoplast in H2O-butylcellosolve (80:20) on a substrate gave a coating with 8 H pencil hardness which showed insignificant blister formation after 24 h immersion in H2O.

IT 62655-70-3P
(prepn. of)

RN 62655-70-3 HCA

CN Dextrin, acetate hydrogen 1,2-cyclohexanedicarboxylate (9CI) (CA INDEX NAME)

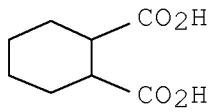
CM 1

CRN 9004-53-9

CMF Unspecified
CCI PMS, MAN
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

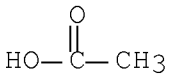
CM 2

CRN 1687-30-5
CMF C8 H12 O4



CM 3

CRN 64-19-7
CMF C2 H4 O2



IC C08B031-04
CC 44-5 (Industrial Carbohydrates)
IT **Coating materials**
(hydrolyzed starch esters contg. hydroxymethylated melamine)
IT **62655-70-3P**
(prepn. of)
OSC.G 11 THERE ARE 11 CAPLUS RECORDS THAT CITE THIS RECORD (11 CITINGS)

=> D L48 1-6 TI

L48 ANSWER 1 OF 6 HCA COPYRIGHT 2009 ACS on STN
TI Composition comprising dextrinsulfate for the treatment of sexual transmitted diseases

L48 ANSWER 2 OF 6 HCA COPYRIGHT 2009 ACS on STN

TI Water-repellent cosmetics with good emulsion stability containing triglycerin-modified silicones and salts

L48 ANSWER 3 OF 6 HCA COPYRIGHT 2009 ACS on STN
TI Use of cyclodextrin derivatives for skin preparations, etc., their micelles or nanoparticles, and compositions containing the derivatives

L48 ANSWER 4 OF 6 HCA COPYRIGHT 2009 ACS on STN
TI Manufacture of ester-crosslinked chitosan hydrogels as support material and quaternized, cyclodextrin-modified chitosan

L48 ANSWER 5 OF 6 HCA COPYRIGHT 2009 ACS on STN
TI Complexes of insoluble cyclodextrin polymers

L48 ANSWER 6 OF 6 HCA COPYRIGHT 2009 ACS on STN
TI Semisolid compositions containing cyclic silicones for pharmaceutical ointments and cosmetic creams

=> D L48 3 BIB ABS HITSTR HITIND RE

L48 ANSWER 3 OF 6 HCA COPYRIGHT 2009 ACS on STN
AN 135:376708 HCA Full-text
TI Use of cyclodextrin derivatives for skin preparations, etc., their micelles or nanoparticles, and compositions containing the derivatives
IN Eric, Perrier; Nicholas, Terry; Rival, Delphine; Coleman, Anthony
PA Coletica, Fr.
SO Jpn. Kokai Tokkyo Koho, 26 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 2001323002	A	20011120	JP 2000-222967	20000724 <--
JP 3582583	B2	20041027		
FR 2808691	A1	20011116	FR 2000-6102	20000512 <--

FR 2808691	B1	20050624		
GB 2362102	A	20011114	GB 2000-16653	200007 06
			<--	
GB 2362102	B	20021218		
US 6524595	B1	20030225	US 2000-613773	200007 11
			<--	
DE 10033990	A1	20011122	DE 2000-10033990	200007 13
			<--	
DE 10033990	B4	20071227		
US 20030152602	A1	20030814	US 2002-318903	200212 13
			<--	
PRAI FR 2000-6102	A	20000512	<--	
US 2000-613773	A3	20000711	<--	

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

AB Cyclodextrin in which OH groups are substituted with OCOR or NR1R2 [R, R1, R2 = C1-30, preferably C2-22 chain or cyclic (un)satd. (hydroxy)hydrocarbyl], are useful as tissue penetration promoters for cosmetics and drugs, etc. The cyclodextrin derivs. may form micelles or nanoparticles, in which active components are enclosed. Also claimed are compns. contg. the derivs. and vehicles, esp. phospholipids such as lecithins, surfactants, or cationic lipids, and method for skin-care method by applying the cyclodextrin derivs. to body including face. β-Cyclodextrin laurate (no. of laurate residue is 6-10, prepn. given) was dissolved in acetone and the soln. was gradually added to H2O to give milky white soln. Acetone was evapd. from the soln. and the residue was redispersed in H2O to give nanoparticles having av. particle size 212 nm ± 5 nm.

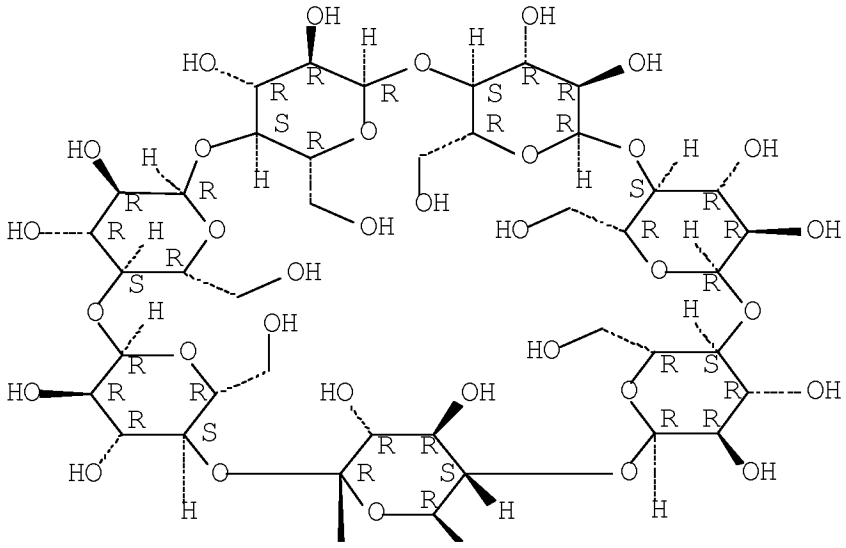
IT 7585-39-9DP, β-Cyclodextrin, alkyloyl esters
(prepn. of cyclodextrin esters or amino derivs. capable of forming micelles or nanoparticles for drugs, cosmetics, and food)

RN 7585-39-9 HCA

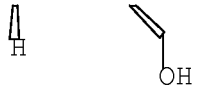
CN β-Cyclodextrin (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 2-A



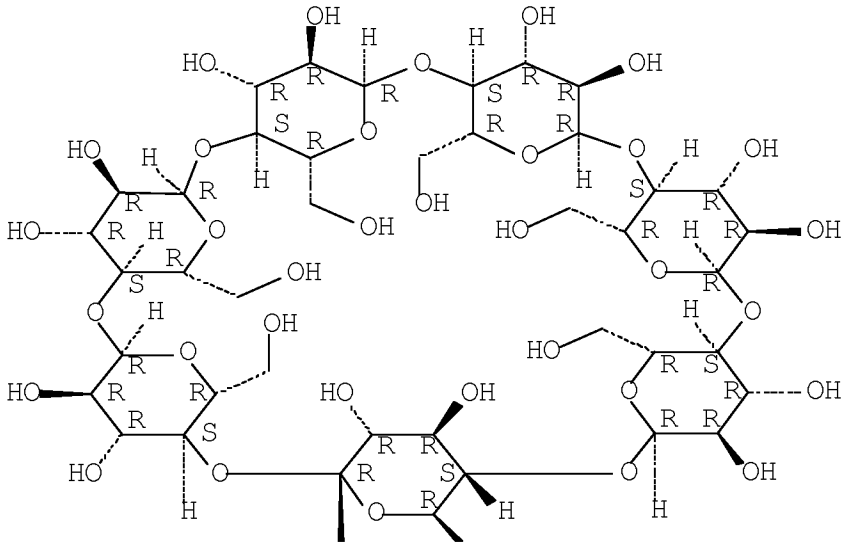
IT 7585-39-9, β-Cyclodextrin
(prepn. of cyclodextrin esters or amino derivs. capable of forming micelles or nanoparticles for drugs, cosmetics, and food)

RN 7585-39-9 HCA

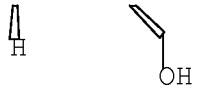
CN β-Cyclodextrin (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 2-A



IC ICM C08B037-16
ICS A61K007-00; A61K007-025; A61K007-032; A61K007-075; A61K009-10; A61K047-40

CC 63-5 (Pharmaceuticals)
Section cross-reference(s): 17, 62

IT 9003-01-4D, Polyacrylic acid, crosslinked products with allyl ethers of pentaerythritol or sucrose or both
(gel carrier; prepn. of cyclodextrin esters or amino derivs. capable of forming micelles or nanoparticles for drugs, cosmetics, and food)

IT 79-04-9DP, reaction products with β-cyclodextrin laurate
4755-77-5DP, reaction products with β-cyclodextrin laurate
7585-39-9DP, β-Cyclodextrin, alkyloyl esters
7693-46-1DP, reaction products with β-cyclodextrin laurate

374690-20-7P 374690-21-8P 374690-22-9DP, reaction products with β-cyclodextrin laurate 374690-23-0DP, reaction products with β-cyclodextrin laurate 374690-24-1P
(prepn. of cyclodextrin esters or amino derivs. capable of forming micelles or nanoparticles for drugs, cosmetics, and food)

IT 79-37-8, Oxalyl chloride 79-37-8D, Oxalic acid chloride, reaction products with β-cyclodextrin laurate 107-15-3, Ethylenediamine, reactions 110-15-6D, Butanedioic acid, reaction products with β-cyclodextrin laurate, reactions 2050-92-2 4755-77-5, Ethyl oxalyl chloride 7585-39-9, β-Cyclodextrin 7693-46-1, 4-Nitrophenyl chloroformate 15181-48-3D, Chlorosulfate, reaction products with β-cyclodextrin laurate 30754-23-5, Heptakis(6-deoxy-6-iodo)-β-cyclodextrin 74426-35-0
(prepn. of cyclodextrin esters or amino derivs. capable of forming micelles or nanoparticles for drugs, cosmetics, and food)

OSC.G 9 THERE ARE 9 CAPLUS RECORDS THAT CITE THIS RECORD (9 CITINGS)